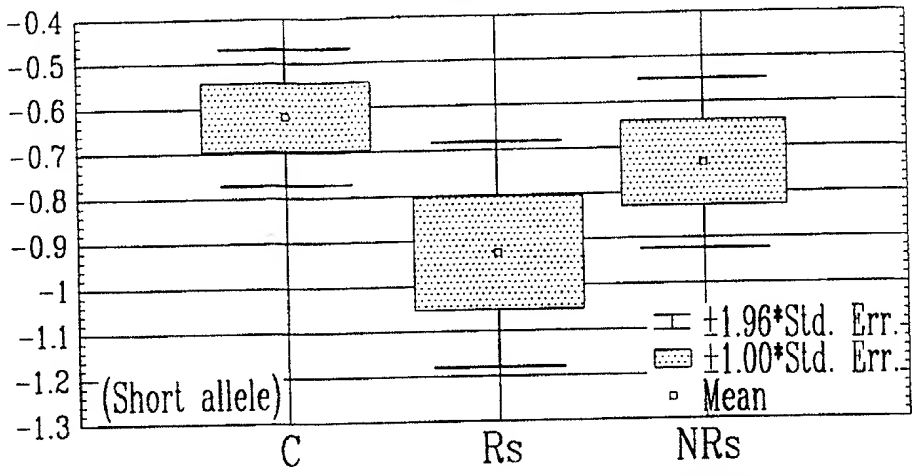

FIG. 1A

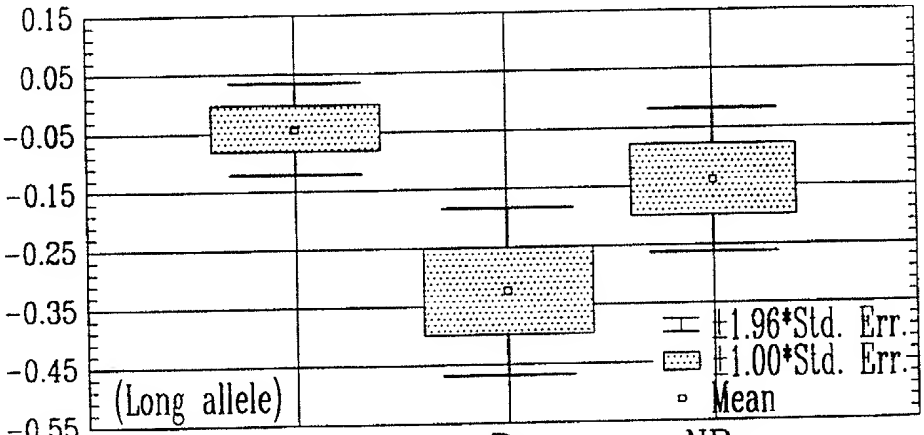

FIG. 1B

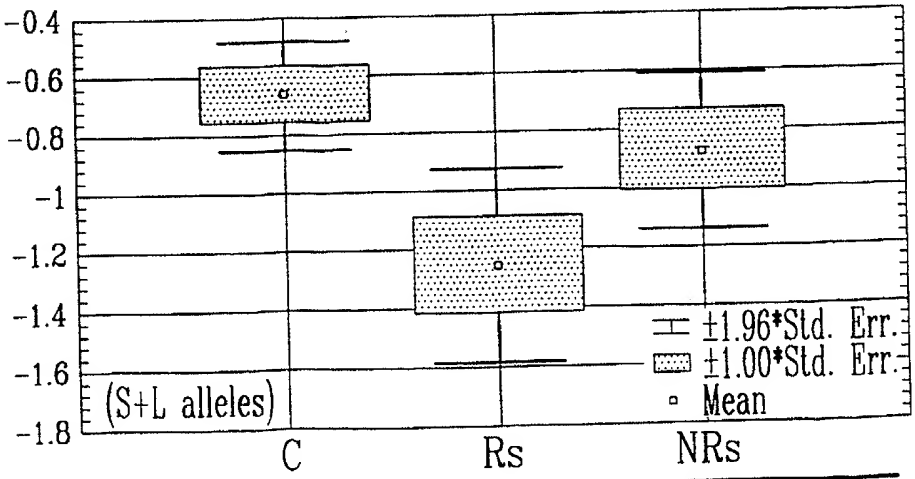

FIG. 1C

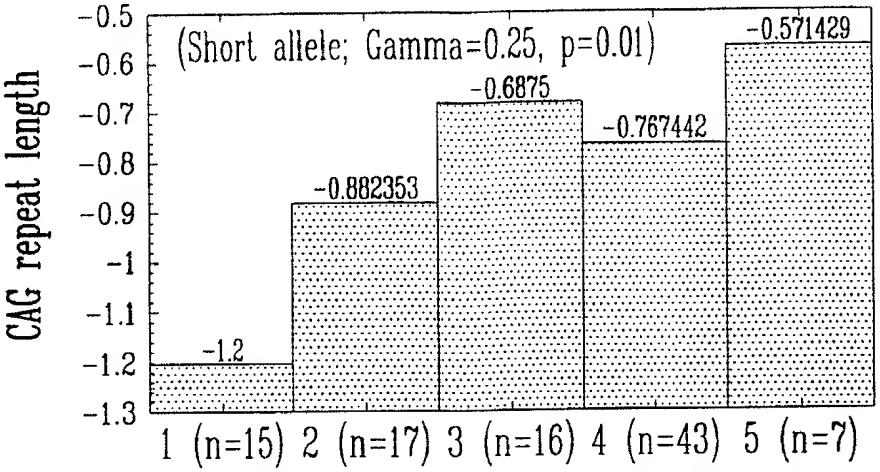

FIG 2A

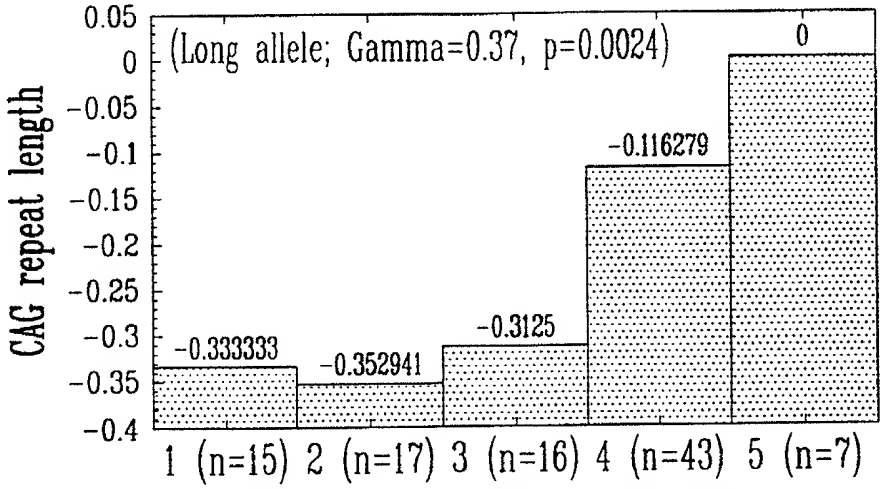

FIG 2B

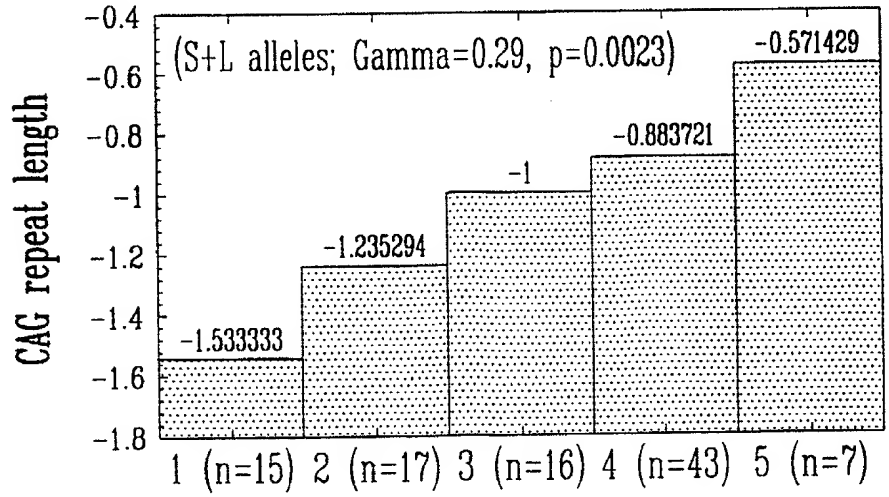

FIG 2C

homology between the human GCT10D04 sequence and the mouse GT1 gene

```
                                  130       140       150       160       170       180
                                  |         |         |         |         |         |
D29801M (1>600)          →  AGGGCAGCCACTTTCCCCAGCATTCCCAGTCCTTCCCTACCTCCTCCACTTATGCCCCAA
GCT10D04 (1>320)         ←                                    TCCTTCCCCACCTCCTCCACCTACTCCTCCT
                            AGGGCAGCCACTTTCCCCAGCATTCCCAGTCCTTCCCTACCTCCTCCACYTAYKCCYCMW
                                  190       200       210       220       230       240
                                  |         |         |         |         |         |
D29801M (1>600)          →  CAGTG-CAGGGTGGTGGGCAGGGGGCCCACTCCTACAAGAGCTGCACAGCACCATCTGCC
GCT10D04 (1>320)         ←  CTGTCCCAGGGTGGTGGGCAGGGGGCCNACTCCTATAAGAGTTGCACAGCACCGACTGCC
                            CWGTGcCAGGGTGGTGGGCAGGGGGCCCACTCCTAYAAGAGYTGCACAGCACCRWCTGCC
                                  250       260       270       280       290       300
                                  |         |         |         |         |         |
D29801M (1>600)          →  CAGCCTCATGATAGGCCGATGAGTGCCAATGCGAACCTGGCTCCAGGGCAACGGGTCCAG
GCT10D04 (1>320)         ←  CAGCCCCATGACAGGCCGCTGACTGCCAGCTCCAGCCTGGCCCCGGGGCAGCGGGTCCAG
Oligo SCZ-15 (1>24)      →                                    GGGGCAGCGGGTCCAG
                            CAGCCYCATGAYAGGCCGMTGASTGCCARYKCSARCCTGGCYCCRGGGCARCGGGTCCAG
```

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Fig. 3A

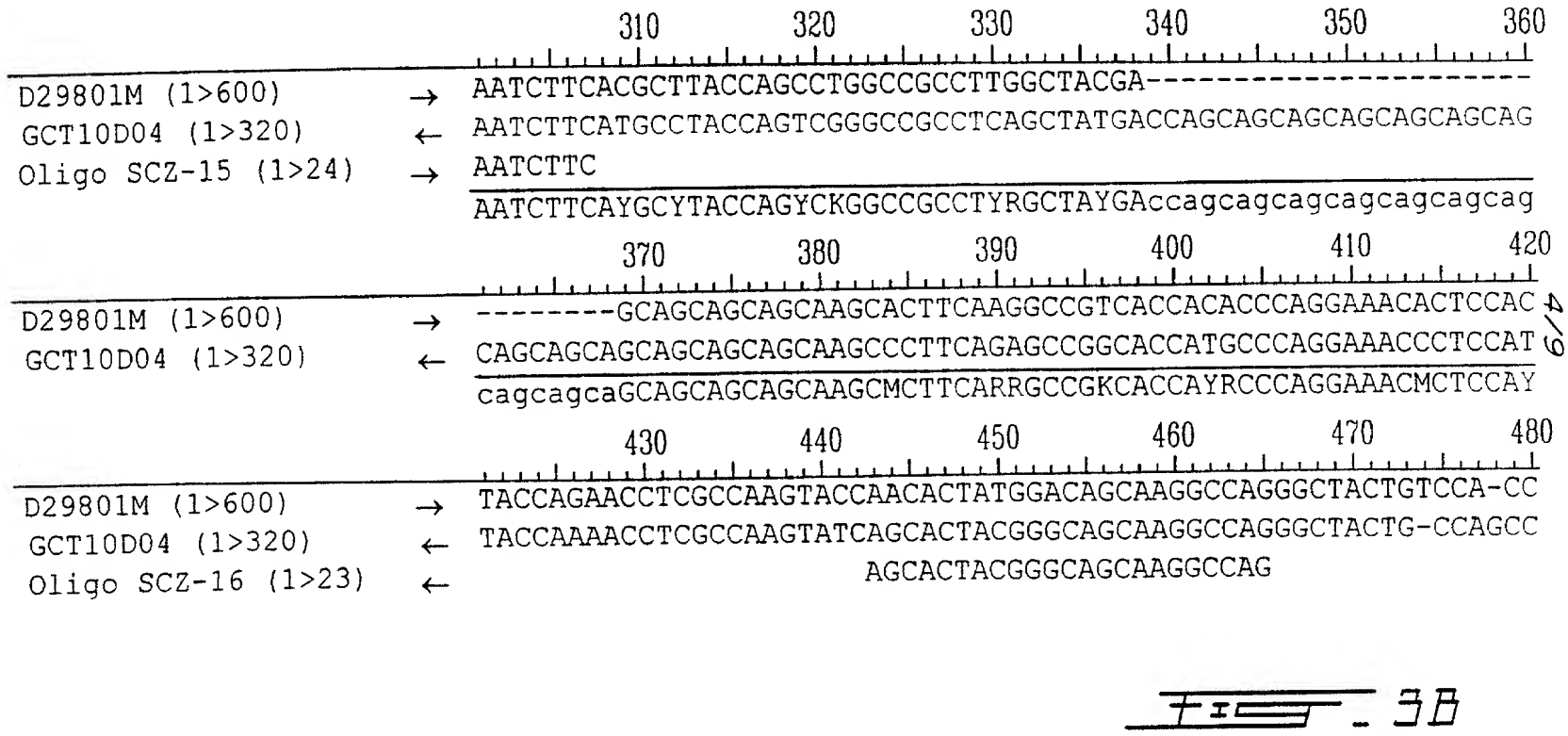

Fig. 3B

09/508821
PCT/CA98/00884

ggatccagcaggcccaaggggatgagggagcggaaattgctctgctaaatgcttttgagctgtca
ggaagggctgggagtgatgggtgggggacattggggaggagctggcaatgggcgggggggggg
gcgggtagctccccagtgacctggcgctgggcagccggttttgcctcccgcatcagtggccgtcctt
ggcaagactcagctgcaggcgatgtgggagcgggaattacagagcacacctccctgacacaga
agttgtcaatatgcgcacagctggtggggaggctcaggcgaaggggggactattaagagctgcg
cgggggagcaggcagggtggggaggtgggtgggagggtgctttctgaggcaaaaggaagtgg
cccgtctgaatcgctcatcctctgccccctccctgcccatcctcccctccctccttccctccctccctcc
cttccttttctttcaCAGATAACCAGCCCGAGTCATGCAGTCTTTTCGAGAA
AGGTGTGGTTTCCATGGCAAACAACAGAACTACCAGCAGACCTCG
CAGGAAACATCACGCCTAGAGAATTACAGGCAGCCGAGTCAGGCC
GGGCTAAGCTGCGACCGGCAGCGGCTGCTCGCCAAGGACTATTAT
AACCcGCAGCCTTACCCGAGCTATGAGGGTGgCGCTGGCACGCCcT
CTGGCACTGCAGCCgCGGTGGCCGCCGACAAGTACCACCGAGGC
AGCAAGGCCCTGCCCACACAGCAAGGCCTGCAGGGGAGGCCGGC
TTTCCCTGGcTACGGCGTCCAGGACAGCAGCCCCTACCCAGGCCG
CTATGCTGGTGAGGAGAGCCTTCAGGCTTGGGGGGCCCCACAGC
CACCACCCCCACAGCCGCAGCCACTACCTGCAGGGGTGGCCAAGT
ATGATGAGAACTTGATGAAAAAGACAGCAGTGCCCCCCAGCAGGC
AGTATGCAGAGCAGGGCGCCCAGGTGCCCTTTCGGACTCACTCCC
TGCACGTCCAGCAGCCACCGCCGCCCCAGCAGCCCCTGGCATACC
CCAAGCTCCAAAGGCAGAAGCTGCAGAACGACATTGCCTCCCCTC
TGCCCTTCCCCCAGGGTACCCACTTTCCTCAGCATTCCCAGTCCTT
CCCCACCTCCTCCACCTACTCCTCCTCTGTCCAGGGTGGTGGGCA
GGGGGCCCACTCCTATAAGAGTTGCACAGCACCGACTGCCCAGCC
CCATGACAGGCCGCTGACTGCCAGCTCCAGCCTGGCCCCGGGGC
AGCGGGTCCAGAATCTTCATGCCTACCAGTCGGGCCGCCTCAGCT
ATGACCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG
CAAGCCCTTCAGAGCCGGCACCATGCCCAGGAAACCCTCCATTAC

Fig 4A

CAAAACCTCGCCAAGTATCAGCACTACGGGCAGCAAGGCCAGGGC
TACTGCCAGCCGGACGCAGCCGTCCGGACCCCAGAGCAGTACTAC
CAGACCTTCAGCCCCAGCTCCAGCCACTCACCCGCCCGCTCCGTG
GGCCGCTCACCTTCCTACAGTTCCACACCGTCGCCGCTGATGCCA
AACCTGGAGAACTTTCCCTACAGCCAGCAGCCGCTCAGCACCGGG
GCCTTCCCCGCAGGGATCACTGACCACAGCCACTTCATGCCCCTG
CTCAATCCCTCCCCAACGGATGCCACCAGCTCTGTGGACACCCAG
GCTGGCAACTGCAAGCCCCTTCAGAAGGACAAGCTCCCTGAGAAC
CTGCTGTCGGATCTCAGCCTGCAGAGCCTCACGGCGCTGACCTTA
CAGGTGGAGAACATCTCCAACACCGTCCAGCAGCTGCTGCTCTCC
AAGGCTGCTGTGCCGCAGAAGAAAGGTGTCAAGAACCTCGTGTCC
AGGACCCCAGAGCAGCATAAAAGCCAGCACTGCAGCCCCGAagGG
AGCGGCTACTCAGCCGAGCCCGCAgGCACACCGCTGTCAGAGCCG
CCGAGCAGCACGCCACAGTCCACGCATGCGGAGcCGCAGGAGGC
CGACTACCTGAGCGGCTCCGAGGACCCACTGGAGCGCAgcTTCCT
CTACTGCAACCAGGCCCGTGGCAGCCCTGCCAGGGTCAACAGCAA
CTCGAAGGCCAAGCCCGAGTCCGTGTCCACCTGTTCTGTGACCTC
TCCTGACGACATGTCCACCAAATCTGACGACTCCTTCCAGAGCCTA
CACGGCAGTCTGCCGCTCGACAGCTTCTCCAAGTTCGTGGCGGGT
GAGCGGGACTGTCCGCGGCTGCTGCTCAGCGCCCTGGCACAGgA
GGACCTGGCCTCCGAGATCCTGGGGCTGCAGGAAGCCATCGGTG
AGAAGGCCGACAAAGCTTGGGCTGAAGCACCCAGCCTGGTCAAGG
ACAGCAGCAAGCCACCCTTCTCGCTGGAGAACCACAGCGCCTGCC
TGGACTCTGTGGCCAAGAGTGCGTGGCCCCGGCCTGGGGAGCCG
GAGGCCcTGCCCGACTCCTTGCAGCTGGACAAGGGCGGCAATGCC
AAGGACTTCAGCCCAGGGCTGTTTGAAGACCCTTCCGTGGCCTTCg
cTACGCCTGACCCCAAAAAGACAACTGGTCCTCTCTCCTTTGGTAC
CAAGCCCACCCTTGGGGTTCCTGCTCCAGACCCCACTACAGCAGC

Fig 4B

TTTTGACTGTTTCCCGGACACAACCGCTGCCAGCTCAGCGGACAG
CGCCAACCCCTTTGCCTGGCCAGAGGAAAACCTGGGGGATGCTTG
TCCCAGGTGGGGATTGCACCCTGGCGAGCTTACCAAGGGCCTGGA
GCAGGGTGGGAAGGCCTCAGATGGCATCAGCAAAGGGGACACCC
ATGAGGCTTCGGCCTGCCTGGGCTTCCAGGAGGAGGACCCCCCTg
GGGAGAAGGTGGCCTCGTTGCCCGGGGACTTCAAGCAGGAGGAG
GTGGGTGGGGTGAAGGAGGAGGCAGGTGGGCTGCTGCAGTGCCC
CGAGGTGGCCAAGGCTGACCGGTGGCTGGAGGACAGCCGGCACT
GCTGTTCCACCGCCGACTTCGGGGACCTCCCACTGCTGCCACCCA
CCAGCAGGAAGGAGGACCTGGAAGCTGAGGAGGAGTACTCCTCC
CTATGTGAGCTCCTGGGCAGCCCCGAGCAGAGGCCTGGCATGCA
GGACCCGCTGTCACCCAAGGCCCCACTCATCTGCACCAAGGAGGA
GGTGGAGGAGGTGCTGGACTCCAAGGCCGGCTGGGGCTCTCCGT
GCCACCTCTCAGGGGAGTCCGTCATCCTGCTGGGCCCTACAGTGG
GCACCGAGTCAAAGGTCCAGAGCTGGTTTGAGTCCTCTCTGTCACA
CATGAAGCCAGGTGAAGAGGGGCCTGATGGGGAGCGAGCTCCAG
GGGATTCCACCACCTCGGACGCCTCTCTGGCCCAGAAGCCCAACA
AGCCTGCTGTGCCCGAGGCGCCCATCGCAAAGAAAGAGCCTGTGC
CACGGGGCAAAAGCTTACGGAGCCGTCGGGTGCACCGGGGGCTG
CCCGAGGCCGAGGACTCCCCATGCAGGGCACCAGTGCTGCCCAA
AGACCTCTTGCTCCCTGAATCCTGCACAGGGCCCCCCCAGGGACA
GATGGAAGGGGCTGGAGCCCCAGGCCGGGGGGCCTCGGAAGGG
CTCCCCAGGATGTGTACTCGTTCTCTCACGGCCCTGAGTGAGCCC
CGCACGCCCGGACCCCCAGGCCTGACCACCACCCCTGCACCCCC
AGACAAACTGGGGGGCAAGCAGCGAGCCGCCTTCAAGTCGGGCA
AGCGGGTGGGGAAGCCCTCACCCAAGGCTGCCTCCAGCCCCAGC
AACCCGGCCGCCCTGCCTGTGGCCTCCGACAGCAGCCCGATGGG
CTCCAAGACCAAGGAGACAGACTCACCCAGCACGCCTGGCAAGGA

Fig 4C

CCAGCGCTCCATGATCCTTCGGTCACGCACCAAAACCCAGGAGAT
CTTCCACTCCAAGCGGCGGAGGCCCTCTGAGGGCCGGCTCCCCA
ACTGCCGTGCCACCAAGAAGCTCCTCGACAACAGCCACTTGCCCG
CCACATTCAAGGTCTCCAGCAGCCCCCAGAAGGAGGGCAGGGTGA
GCCAGCGGGCAAGGGTCCCCAAACCTGGTGCAGGCAGCAAGCTC
TCTGACCGGCCCCTCCATGCGCTCAAAAGGAAGTCGGCCTTCATG
GCGCCGGTCCCCACCAAGAAGCGGAACCTGGTCTTGCGgcacgGCA
GCAGCAGCAGCAGCAACGCCAGTGCAATGGGGGGAGATGGGAAGG
AGGAGAGGCCTGAGGGTTCCCCCACCCTCTTCAAGAGGATGTCTT
CTcCCAAGAAAGCCAAGCCCACCAAGGGCAATGGCGAGCCTgCCA
CAAAGCTcCCACCCCCCGgAGACCCCCCATTCCTGCcTCAAGCTCGCC
TCTCGGCAgCCTTCCAGGGGGCCATGAAGACCAAGGTGCTGCCAC
CCCGGAAGGgCCGGGGCCTgAAGCTGGAAGCCATCGTGCAGAAGA
TCACCTCGCCCAGCCTCAAGAAGTTCGCATGTAAAGCGCCAGGGG
CCTCTCCTGGTAATCCTCTGAGCCCATCCCTTTCCGACAAAGACCG
TGGGCTCAAGGGTGCTGGGGGCAGCCCAGTGGGGGTGGAAGAAG
GCCTGGTAAATGTGGGCACCGGGCAGAAGCTCCCAACTTCTGGGG
CTGATCCGTTATGCAGAAATCCAACCAACAGATCCTTAAAAGGCAA
ACTCATGAACAGTAAGAAACTGTCTTCTACTGACTGTTTCAAAACCG
AGGCCTTCACATCCCCGGAGGCCCTGCAGCCTGGGgGGACTGCCC
TGGCGCCTAAGAAGAGGAGCCGgAAAGGCCGGGCAGGGGCCCAT
GGACTCTCCAAAGGCCCGCTGGAGAAGCGGCCCTATCTTGGCCCG
GCTCTGCTCCTGACTCCCCGAGACAGGGCCAGTGGCACACAAGGG
GCCAGTGAGGACAACTCTGGTGGAGGAGGCAAGAAGCCAAAGATG
GAGGAGCTGGGCCCTGCCTCCCAGCCCCCGGAGGGCAGGCCCTG
CCAGCCCCAGACAAGGGCACAGAAACAGCCAGGCCACACCAACTA
CAGCAGCTATTCCAAGCGGAAGCGCCTCACTCGGGGCCGGGCCA
AGAACACCACCTCTTCACCCTGTAAGGGGCGTGCCAAGCGACGAC

Fig. 4D

GACAACAGCAGGTGCTGCCCCTGGATCCCGCAGAGCCTGAAATCC
GCCTCAAGTACATTTCCTCTTGCAAGCGGCTGAGGTCAGACAGCC
GGACCCCCGCCTTCTCACCCTTCGTGCGGGTGGAGAAGCGAGAC
GCGTTCACCACCATATGCACTGTTGTCAACTCCCCTGGAGATGCGC
CCAAGCCCCACAGGAAGCCTTCCTCCTCTGCCTCCTCTTCCTCATC
CTCGTCCTCGTTCTCCTTGGATGCAGCCGGGGCCTCCCTGGCCAC
ACTCCCTGGAGGCTCCATCCTGCAGCCGCGGCCCTCCTTGCCCCT
CTCCTCCACGATGCACTTGGGGCCTGTGGTTTCCAAGGCCCTGAG
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CTCCCCAAAAAGAAGCCAAAACTCAAGGAGAAGGTGCGGCCAGAA
GGCACCTGTGAGGAGGCCTCGCTGCCGCTTGAGAGAACACTCAAA
GGTCCCGAGTGTGCAGCTGCCGCCACTGCCGGGAAGCCCCCCAG
GTGACGGCCCAGCTGACCCGGCCAAGCAGGGCCCACTGCGCACC
AGTGCCCGGGGCCTGTCCCGGAGGCTGCAGAGCTGCTACTGCTG
TGATGGCCGGGAGGATGGGGGCGAGGAGGCAGCCCCAGCCGACA
AGGGTCGCAAACATGAGTGCAGCAAGGAGGCTCCGGCAGAGCCC
GGCGGGGAGGCCCAGGAGCACTGGGTGCATGAGGCCTGTGCCGT
GTGGACCGGCGGCGTCTACCTGGTGGCCGGGAAGCTCTTTGGGC
TGCAG

Fig. 4E